

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER 85-58

WASTE DISCHARGE REQUIREMENTS FOR:

PACIFIC LIGHTING ENERGY SYSTEMS, INC.
AND THE CITY OF SANTA CLARA
CITY OF SANTA CLARA STATION
SANTA CLARA, SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board), finds that:

1. Pacific Lighting Energy Systems by application dated January 24, 1985, has applied for a permit to actively discharge an average of 100 gallons per day (maximum of 200 gallons per day) of landfill gas condensate into Parcel 1 of the City of Santa Clara solid waste disposal site. Pacific Lighting Energy Systems, Inc. and the City of Santa Clara are hereinafter collectively referred to as the discharger. An unknown quantity of condensate will be discharged passively (see Finding 4) into parcels 1, 2, and 4 (see Attachment A) of the City of Santa Clara solid waste disposal site. The facility for which a permit has been applied for is known as the City of Santa Clara Station.
2. The project site, as shown on Attachment A, which is incorporated herein and made a part of this Order, is on property used by the City of Santa Clara as a solid waste disposal site. This property is located South of Highway 237 off of Lafayette Street between the Guadalupe River and San Tomas Aquino Creek in Santa Clara County.
3. The landfill gas condensate to be discharged is a byproduct of the landfill gas extraction process. It contains no chemical additives which could adversely affect containment features at the landfill, and consists only of water and liquid contaminants removed from gas recovered at the City of Santa Clara solid waste disposal site.
4. Condensate is to be returned to the landfill in two manners: 1) actively, by pumping to condensate reinjection wells from the central gas-to-electricity generating station, and, 2) passively, thru condensate traps placed at low points in the gas collection lines. These condensate return points are shown on Attachment B, which is incorporated herein and made a part of this Order.

5. The City of Santa Clara solid waste disposal site is located in an alluvial plain known as the San Jose Plain. The site is underlain by 600 feet or more of alluvial sediments consisting of alternating sequences of silty clays, sandy clays, sand, and gravel. The underlying silty sands to silty clays show permeabilities ranging from 10^{-4} cm/sec to 10^{-6} cm/sec, with more clayey materials showing permeabilities less than 10^{-6} cm/sec. Groundwater suitable for domestic use exists approximately 150 feet below the ground surface. The logs of test borings show a shallow groundwater zone approximately 5 to 7 feet below the ground surface level previous to refuse filling. Refuse placed below this level has been isolated from shallow groundwater by clay barriers and natural features as described in Board Order No. 73-77. This shallow groundwater is brackish and unsuitable for domestic or agricultural purposes.
6. The City of Santa Clara solid waste disposal site has been in operation since 1973, under Board Order No. 73-77. No evidence has been reported to this Board under the Self-Monitoring Program for this facility which would indicate that the facility has not adequately contained wastes disposed of there. Self-Monitoring reports have been submitted regularly.
7. The potential and actual beneficial uses of ground and surface waters in the vicinity of this solid waste disposal site which might be affected by disposal of methane gas condensate are:
 - a. Water contact recreation.
 - b. Non-contact water recreation.
 - c. Warm freshwater habitat.
 - d. Wildlife habitat.
 - e. Fish migration.
 - f. Fish spawning.
 - g. Municipal and domestic water supply.
 - h. Agricultural water supply.
 - i. Industrial process water supply.
8. The Board adopted a revised Water Quality Plan for the San Francisco Bay Basin on July 1, 1982 and this Order implements the water quality objectives stated in that plan.

9. These waste discharge requirements regulate an exemption made on the basis of Finding 3 for the discharge of a liquid waste into a Class III landfill, as describe in Section 2511 (e) of Subchapter 15, Chapter 3, Title 23, of the California Administrative Code. The Waste Discharge Requirements for the City of Santa Clara solid waste disposal site (Board Order No. 73-77) are herein amended to incorporate this exemption.
10. The Board notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements, and has provided them with an opportunity for a public hearing and to submit their written views and recommendations.
11. The Board, in a public hearing held on May 15, 1985 heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED: Pacific Lighting Energy Systems and the City of Santa Clara and any other persons or organizations that currently or in the future own this facility shall meet the provisions contained in division 7 of the California Water Code and regulations adopted thereunder and shall also comply with the following.

A. PROHIBITIONS

1. The disposal of condensate shall not create a pollution or nuisance as defined in Section 13050 (1) (m) of the California Water Code.
2. Condensate shall not be disposed of in any way which would allow discharge of the condensate into waters of the State or the United States.
3. Disposal of condensate shall not create any condition which does or could impair the effectiveness of the containment structures or features at the City of Santa Clara waste disposal site.

B. SPECIFICATIONS

1. Condensate shall be returned to the City of Santa Clara solid waste disposal site at the points designated on Attachment B.
2. Condensate reinjection wells and condensate traps shall conform with their respective details as specified in the supplemental submittal to the Report on Waste Discharge, dated April 4, 1985.

C. PROVISIONS

1. The discharger shall comply with this Order immediately upon commencement of operations.
2. The discharger shall remove and relocate any condensate which is discharged at this site in violation of these requirements.
3. The discharger shall file with this Board a report of any material change or proposed change in the character, location, or quantity of this waste discharge. For the purpose of these requirements, this includes any proposed change in the gas extraction system configuration, or the ownership of the City of Santa Clara Station or the City of Santa Clara solid waste disposal site.
4. The discharger shall maintain a copy of this Order at the City of Santa Clara Station so as to be available at all times to site operating personnel.
5. This Board considers the discharger to have a continuing responsibility for correcting any problems which arise in the future as a result of this waste discharge or related operations.
6. The discharger shall permit the Regional Board:
 - a) Entry upon premises on which wastes are located or in which any required records are kept.
 - b) Access to copy any records required to be kept under the terms and conditions of this Order.
 - c) Inspection of equipment or records.
 - d) Sampling of any discharge.

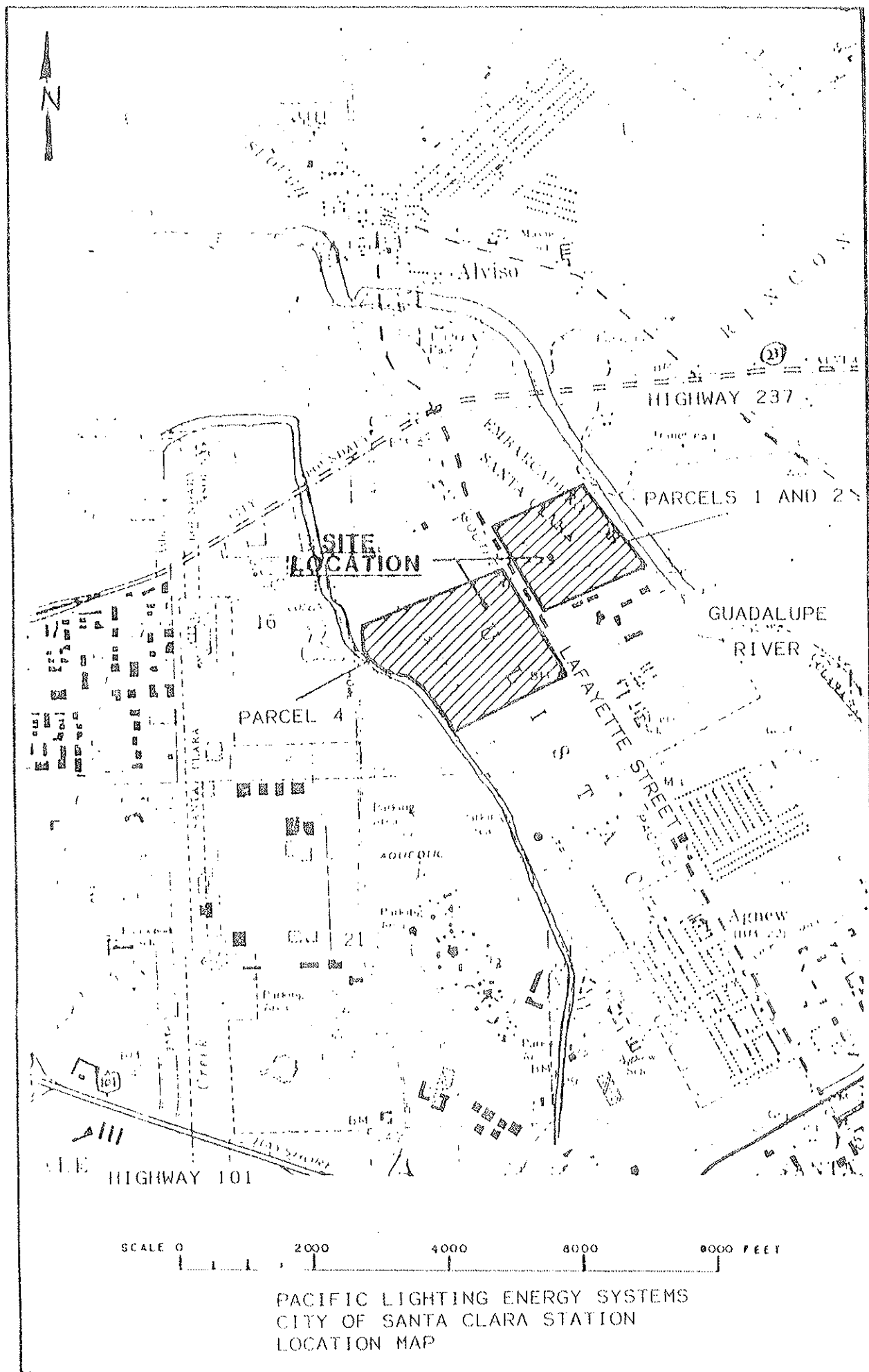
7. These requirements do not authorize commission of any act causing injury to the property of another or of the public; do not convey any property rights; do not remove liability under federal, state, or local laws; and do not authorize the discharge of wastes without appropriate permits from other agencies or organizations.
8. Board Order No. 73-77, Discharge Prohibition B.1., is hereby amended to read "Group 1 wastes, as defined in Title 23, California Administrative Code, and liquid wastes, other than those described in Board Order No. 85-58, shall not be discharged or stored at this site at any time."

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on May 15, 1985.

ROGER B. JAMES
EXECUTIVE OFFICER

Attachments:

- A. Site location map.
- B. Waste discharge point location maps (2).

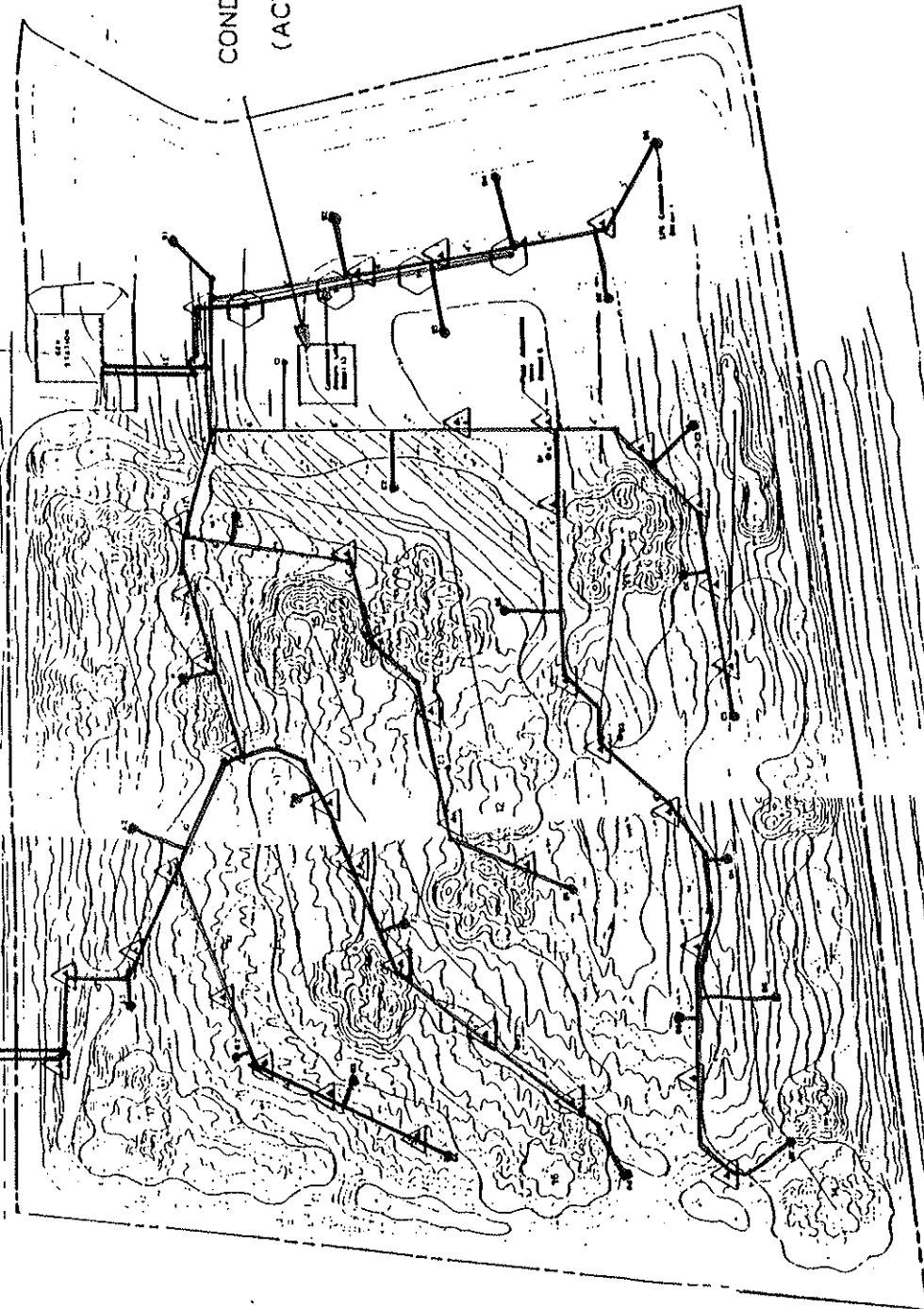


Gas system bridge over Lafayette street

GENERATING STATION

STREET

LAFAYETTE



CONDENSATE RETURN LINE
(ACTIVE RE-INJECTION)

LEGEND

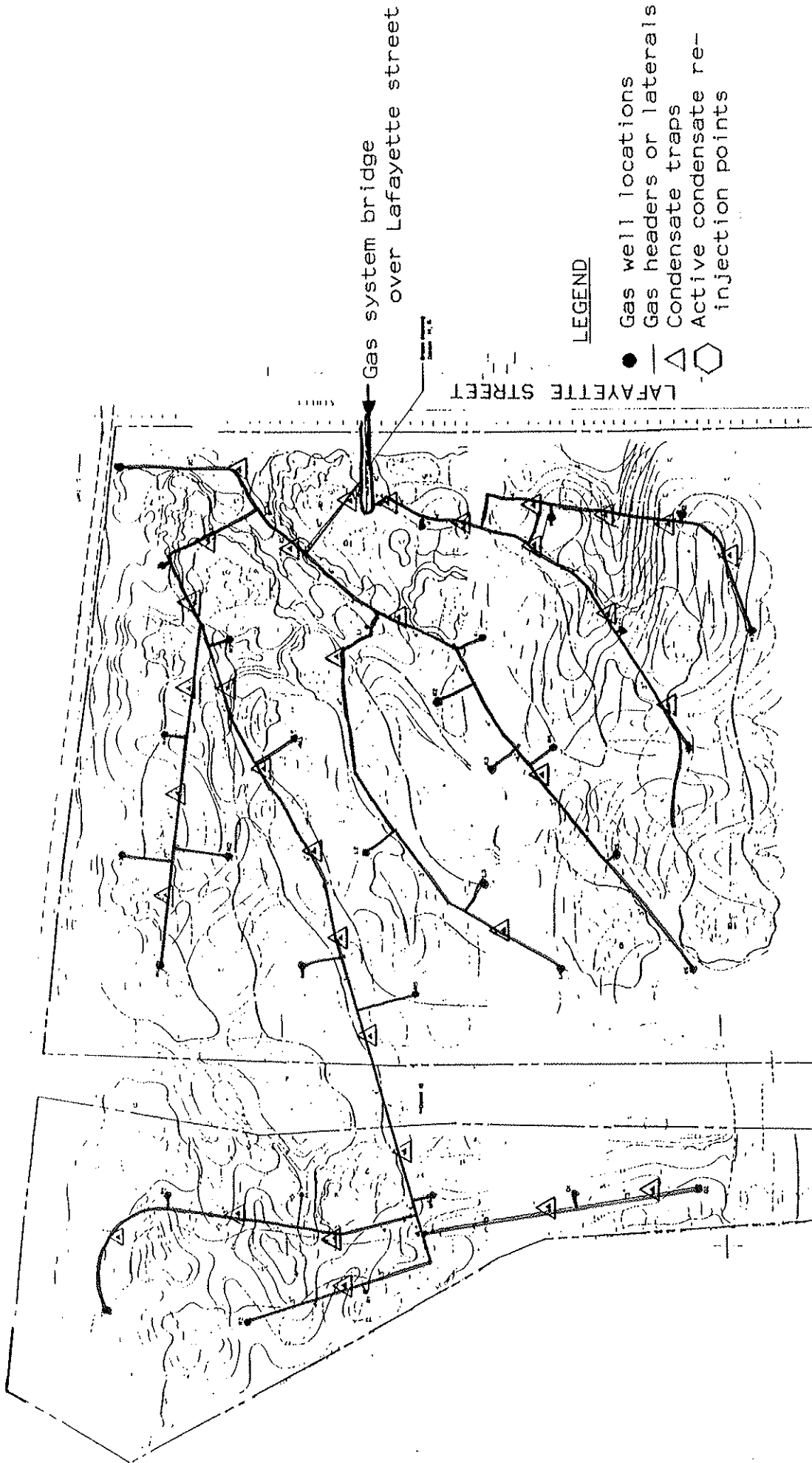
- Gas well locations
- Gas headers or laterals
- △ Condensate traps
- Active condensate re-injection points

GUADALUPE RIVER

STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

PACIFIC LIGHTING ENERGY SYSTEMS
CITY OF SANTA CLARA STATION
PLAN FOR PARCELS 1 AND 2

DRAWN BY: GW DATE: 4/10/85 DRWG. NO. B.1.



LEGEND

- Gas well locations
- Gas headers or laterals
- △ Condensate traps
- Active condensate re-injection points

STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

PACIFIC LIGHTING ENERGY SYSTEMS
CITY OF SANTA CLARA STATION
PLAN FOR PARCEL 4

DRAWN BY: GW DATE: 4/10/85 DRWG. NO. B.2.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
1111 JACKSON STREET, ROOM 6040
OAKLAND 94607

Phone: Area Code 415
464-1255



Certified Mail No. P 725 739 515
Return Receipt Requested

Date: May 30, 1985

File: 2189.8184

Pacific Lighting Energy Systems, Inc.
6055 East Washington Blvd.
Commerce, CA 90040

NOTICE: The item(s) indicated by an "X" are enclosed herewith:

- ☒ A. One certified copy of an Order adopted by the Board on the date shown therein.
- ☐ B. Attachment to Order containing Requirements and Recommendations of other agencies.
- ☐ C. One copy of Executive Officer Summary Report which was considered by the Board on the date shown therein. The Motion(s) recommended therein was (were) adopted by the Regional Board on that date.
- ☐ D. Other -

Sincerely,

ROGER B. JAMES
Executive Officer

Enclosed: Order No. 85-58